

ABSTRACT OF THE DISCLOSURE

An optical device includes, in a predetermined section of an optical fiber 1, a first functional part 7 having a plurality of Faraday crystal columns 5 that are parallel to each other and almost penetrating perpendicularly to an optical axis 2 of an optical fiber 1 through a core thereof, and a second functional part 8 having a plurality of holes 6 that are parallel to each other and almost penetrating perpendicularly to the optical axis 2 of the optical fiber 1 through the core thereof. A longitudinal direction of the Faraday crystal columns 5 and a longitudinal direction of the holes 6 form an angle of 45 degrees along a plane perpendicular to the optical axis 2. Thus, the optical device can be realized only by processing the optical fiber.